

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/600.130 Confirmation No.: 8898
Inventor : Campbell
Filing Date : May 14, 2001
Title : Double Nuclear Transfer Method and Results Thereof
T.C./A.U. : 1632
Examiner : Joseph T. Voitach

Docket No. : 105434.105001
Customer No.: 20786

Commissioner for Patents
PO Box 1450
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Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, Applicants cite the publications listed on the accompanying PTO-1449. Copies of all listed references are enclosed. Also enclosed is a check for \$180.00 for submission of an Information Disclosure Statement. Please credit any overpayment or charge any deficiency to Deposit Account No. 11-0980.

09/03/2003 MBIZUNES 00000043 09600130

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Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 1 of 4		Application Number	09/600,130
		Filing Date	May 14, 2001
		First Named Inventor	Campbell
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	10534.105001

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U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	AA	6,011,197		Strelchenko <i>et al.</i>	01-04-2000

FOREIGN PATENT DOCUMENTS						
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	AB	Baguisi et al "Production of goats by somatic cell nuclear transfer" Nature Biotechnology (1999) 17: pp. 456-461	
	AC	R.O. Bates and B.N. Day "The Attainment of Estrus in Sows Administered with 400 IU Pregnant Mare Serum Gonadotropin and 200 IU Human Chorionic Gonadotropin at Weaning" American Society of Animal Science Annual Meeting, New Brunswick, NJ, July 19-22 (1989).	
	AD	Bethausen <i>et al.</i> "Production of cloned pigs from in vitro systems" Nature Biotechnology. 18:1055-1059 (2000)	
	AE	Booth <i>et al.</i> , "Application of the Zona-Free Manipulation Technique to Porcine Somatic Nuclear Transfer", Cloning and Stem Cells Vol. 3, No. 4, 2001 (Mary Ann Liebert, Inc.)	
	AF	E.W. Carney and R.H. Foote "Effects of superovulation, embryo recovery, culture system and embryo transfer on development of rabbit embryos in vivo and in vitro," J. Reprod. Fert. (1990) 89, 543-551	
	AG	Chen <i>et al.</i> "Interspecies Implantation and Mitochondria Fate of Panda-Rabbit Cloned Embryos", Biology of Reproduction 67, 637-642 (2002)	

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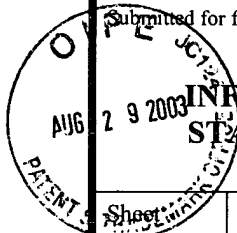
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	BA	Chesne <i>et al.</i> "Cloned Rabbits produced by nuclear transfer from adult somatic cells" Nature Biotechnology 20:366-369 (2002)	
	BB	Choi <i>et al.</i> "Production of Nuclear Transfer Horse Embryos by Piezo-Driven Injection of Somatic Cell Nuclei and Activation with Stallion Sperm Cytosolic Extract", Biology of Reproduction 67, 561-567 (2002)	
	BC	Chrenok, <i>et al.</i> "Effects of Superovulationm Culture and Microninjection on Development of Rabbit Embryos in vitro," Theriogenology 50: 659-666 (1998)	
	BD	Daniels, <i>et al.</i> , "Comparison of Gene Transcription in Cloned Bovine Embryos Produced by Different Nuclear Transfer Techniques," Molecular Reproduction and Development 60:281-288 (2001)	
	BE	Galli <i>et al.</i> , "Comparison of Microinjection (Piezo-Electric) and Cell Fusion for Nuclear Transfer Success with Different Cell Types in Cattle," Cloning and Stem Cells Vol. 4, pp 189-196. No. 3, 2002	
	BF	Galli <i>et al.</i> , "Embryo Production By Ovum Pick Up From Live Donors," Theriogenology 55:1341-1357 (2001)	
	BG	Garcia-Ximenez <i>et al.</i> , "Embryo Transfer in Lactating Rabbit does by Laparoscopy," Amm Reprod Soci 24. 343-346 (1991)	
	BH	Gjorret <i>et al.</i> , "Ultrastructure of Oocyte Maturation, Fertilization, and Early Embryo Development In Vitro in the Siberian Tiger (Panthera Tigris Altaica)" Molecular Reproduction and Development 63:79-88 (2002)	
	BI	H.H. Herrmann, W. Holtz "Culture of Pig Embryos Collected in Situ or After Slaughter" Animal Reproduction Science, 4 (1981) 143-147	
	BJ	Hiroyoshi Hoshi "In Vitro Production of Bovine Embryos and their Application for Embryo Transfer" Theriogenology 59 (2003) 675-685	
	BK	Jin <i>et al.</i> , "Successful Pregnancy After Transfer of Rabbit Blastocysts Grown In Vitro From Single-Cell Zygotes" Theriogenology 54:1109-1116 (2000)	
	BL	Knott <i>et al.</i> , "Porcine Sperm Factor Supports Activation and Development of Bovine Nuclear Transfer Embryos" Biology of Reproduction 66 1095-1103 (2002)	

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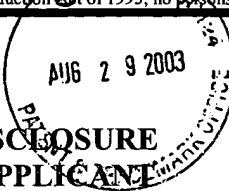
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		Application Number	09/600,130
		Filing Date	May 14, 2001
		First Named Inventor	Campbell
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Attorney Docket Number	10534.105001		
Sheet	3	of	4

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	CA	Kubota <i>et al.</i> , "Six cloned Calves Produced from Adult Fibroblast Cells After Long-term Culture" PNAS Vol. 97 No. 3: pp. 990-995 (2000)	
	CB	Lee <i>et al.</i> , "Cloned Zebrafish by Nuclear Transfer from Long-term-cultured Cells" Nature biotechnology Vol. 20:pp795-799 (August 2002)	
	CC	Li <i>et al.</i> , "Conditions for In Vitro Maturation and Artificial Activation of Ferret Oocytes" Biology of Reproduction 66, 1380-1386 (2002)	
	CD	Li <i>et al.</i> , "Technical Note: Porcine Non-Surgical Embryo Transfer" J Animal Science 74:2263-3368 (1996)	
	CE	Loi <i>et al.</i> "Genetic Rescue of an endangered mammal by cross-species nuclear transfer using post-mortem somatic cells" Nature Biotechnology Vol 19: pp 962-964 (2001)	
	CF	Love & Grey "Early Abortion of Gilts as A Way Of Synchronising Oestrus and Improving Litter Size" (1993)	
	CG	Paul A. Martin, D.V.M., Ph.D. "Embryo Transfer in Swine" Embryo Transfer and Genetic Engineering 66-69	
	CH	Ogura <i>et al.</i> , "Production of Male Cloned Mice from Fresh, Cultured, and Cryopreserved Immature Sertoli Cells Biology of Reproduction 62:1579-1584 (2000)	
	CI	Piotrowska <i>et al.</i> , "Effects of Preactivation of Ooplasts or Synchronization of Blastomere Nuclei in G1 on Preimplantation Development of Rabbit Serial Nuclear Transfer Embryos" Biology of Reproduction 63, 677-682 (2000)	
	CJ	C.E. Pope "Embryo Technology in Conservation Efforts For Endangered Felids Theriogenology 53:163-174 (2000)	
	CK	Saikhun <i>et al.</i> , "Xenonuclear Transplantation of Buffalo (<i>Bubalus bubalis</i>) fetal and Adult Somatic Cell Nuclei Into Bovine (<i>Bos Indicus</i>) Oocyte Cytoplasm and their Subsequent Development" Theriogenology 57:1829-1837 (2002)	
	CL	Shin <i>et al.</i> "A Cat Cloned by Nuclear Transplantation" Nature Vol.415 pg 859 (February 21 2002)	
	CM	Michelle Sims and N.L. First "Production of Calves by Transfer of Nuclei From Cultured Inner Cell Mass Cells" Proc. Natl. Acad. Sci. USA Vol. 90:pp6143-6147 (June 1993)	

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	DA	Techakumphu <i>et al.</i> , "Survival of Rabbit Embryos after Synchronous or Asynchronous Transfer" Animal Reproduction Science 12:297-304 (1987)	
	DB	Wakayama <i>et al.</i> , "Mice Cloned from Embryonic Stem Cells" PNAS Vol. 96:pp14984-14989 (December 21, 1999)	
	DC	Wilmut <i>et al.</i> , "Somatic Cell Nuclear Transfer" Nature Vol.419:pp583-585 (October 10, 2002)	
	DD	Wood <i>et al.</i> , "Efficacy of Altrenogest in Synchronizing Estrus in Two Swine Breeding Programs and Effects on Subsequent Reproductive Performance of Sows" J Anim, Sci. 70:1357-1364 (1992)	
	DE	Woods <i>et al.</i> , "A Mule Cloned from Fetal Cells by Nuclear Transfer" Scienceexpress pg 1-2 (May 29 2003)	



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